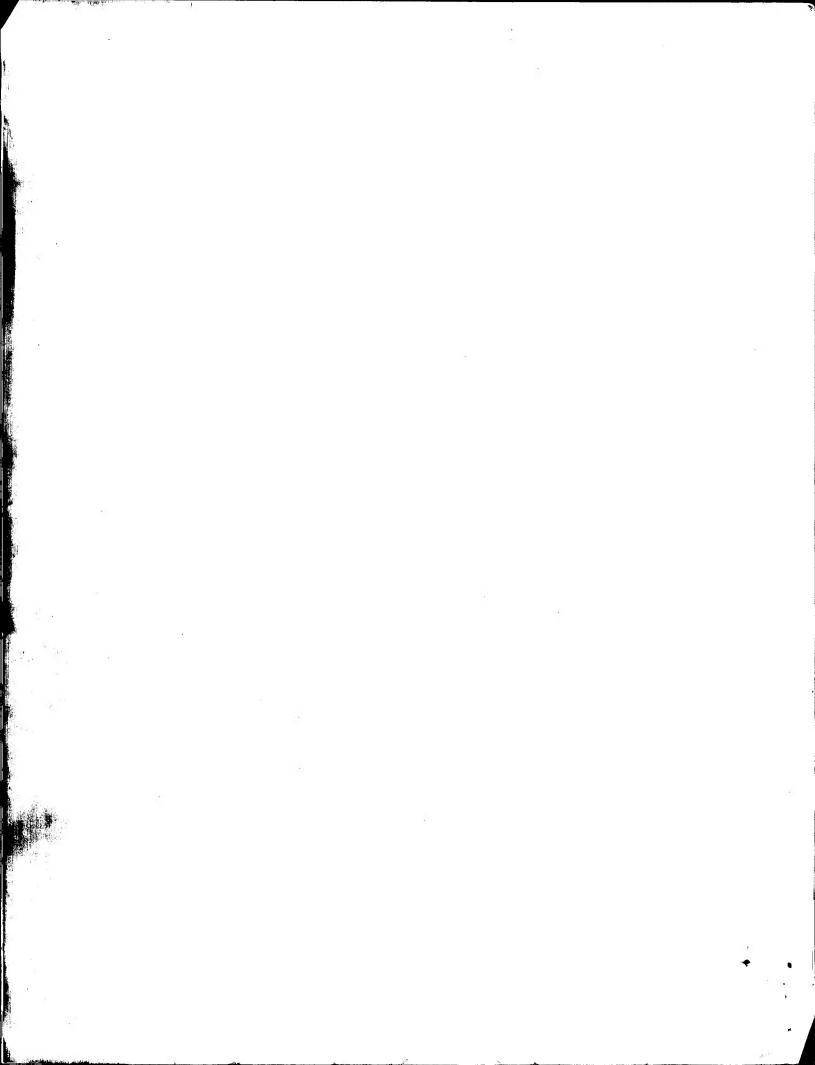
Item ID: Revision ID: Item Name:	D212-664-20		J	Accept	* <b>N</b> 900	040	100	ገ*	Setup Start Stop	I ZI	S1*
Start Date: Required Date: Reference:	19/06/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:				I VI	.7/
Approvals:	Process Pla	n: <u>M</u> LJ	Date: 12/06/1	7 Tooling: SPC (Y/N):		ate:	- y		Run Start Stop	1/1	R1* R2*
Sequence ID/ Work Center II		Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
D212-664-241		ision Nbr		0.00		- 10					
*100* Mori Seiki CNC Lat	he Large	2-Turn first s  3-Blend trans FOLIO REV DWG REV: *Use mill ba	ith sand & install plugs E ide as per Folio FA114 sition lines only, **do no	0.00 0T8534 on both ends as per t sand whole tube**:	Folio FA114				<u> </u>		gna 12/c
*110 *1 1	्रं : स	QC1- Inspect dimensions  Memo	to dimension sheet	0.00				1	9	<u>-</u>	anan 12/0



June-19-12 1:16:48 PM

Item ID: Revision ID:	D212-664-20			Accept	*	N900	040	1100	)* s	Setup S		*N:	S1*	
Item Name:	Crosstube Tur	ning Detail									Stop	*N:	S2*	
Start Date: Required Date:	19/06/2012 : 03/07/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*			Cust Item I Customer:	D:							
Reference:	···								R	tun S	Start	*N11	<b>D</b> 1*	
Approvals:	Process Pla QC:		Date:	Tooling: SPC (Y/N):			ate:			:	Stop	ν   <b>Ν</b> *	₹ i 72*	
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours		Tool ID	Tool #	Plan Code	Accept Qty	Rejec Qty		Reject Number	Insp. Stamp	
*120 *120* Mori Seiki		MORI SEIKI CNC LAT	HE LARGE	0.00						0				
Mori Seiki CNC La	the Large	1-Turn second 1-Turn second 1-Blend train *Use mill b *Do not use FOLIO REV DWG REV 3-Remove s		sand whole tube**: tedly with file card. 0 grit.									9n 12,	W los
*130 *130* QC Quality Control		QC1- Inspect dimension  Memo	s to dimension sheet	0.00						B			900 12/08	1

NCD: Vec / No.														
NCR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE  QA Closed: Date:														
								<del></del>			QA Closed:	Dat	te:	
Work Ord	ler:					DISPOSITION				AGAINST D	EPARTMENT	/PROCESS	14	
Part I	•					Rework Scrap Use-as-is Work Order Update			Skid-tube  Machining  moforming  Large Fab	Crosstube Small Fab Finishing Composite	_	od. Eng. Coor. re/Packaging Supplier Other	Engineerir Qualit	
Root				T	Descr	iption of work order update	Т	Initial	Act	ion	Sign &	ı		
Cause		Date	Step	Qty		or Non-conformance	ار	hief Eng		iption	Date	Verification	QC Inspe	octor
Doc/Data			· · · · · ·				+	c. L.i.B	Deser	iption	Date	Vernication	i QC ilispe	ector
Equip/Tooling	П													
Operator						•								
Material	<b>├</b>													
Offset/Setup	t/Setup						,	¥.						
Other												- 9 -		
Process	Ш													
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Landir [					_	Hardware	_	,	General		•	_	_	
-		Bending Pa				Breaking	<u></u>	Burrs			Maintenand	ce	Set-up	
ŀ		Centre Not	t Concen	tric to (	)/S	Missing	<u></u>	Contami			Mislabeled	Ĺ	Supplier	
}		Cracks (Co				Size/Length	<u> </u>	Cut Too		<u> </u>	Off-Set		Temperature/	Cure
-	Crushed/Crimp at Bending Spinning			<b>i</b> '	<u> </u>		ntation/Data		Orientation N		Weld			
Inspection Strip in Tube Threading			•	$\vdash$	Finish			Out of Calibra	L	Wrong Stock P	Pulled			
Other Wrong				-			on Incomplete		Out of Seque	_	·			
Positioned Wrong Drill Holes							Outside Dime		Other					
Ripples on Inner Bend Misaligned Torque Waves in Extrusion Ovalized				•			ons Incomplete/Un	<del></del>	Over/Under t	olerance				
						- <b> </b>		Part Lost						
				Over/Undersized			Part Moved							
Wave/Twist in Tube Too Man				TOO Many	Kit Missing				Raw Material					

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June-19-12 1:16:48 PM

Item ID: D212-664-201TRN Accent Setup Start \*N900040100\* **Revision ID:** Item Name: Crosstube Turning Detail **Start Date:** 19/06/2012 **Start Oty:** 1.00 Cust Item ID: **Required Date:** 03/07/2012 **Req'd Qty:** 1.00 **Customer:** Reference: Process Plan: Approvals: Date: Tooling: Date: \_ \_ \_ SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Work Center ID Description **Run Hours Qty** Qty Number Stamp Code 140 QC8- Inspect parts - second check 12-8-16 \*140\* QC Memo Quality Control 145 0.00 KM 17-8-19 \*145\* Crosstubes 0.00 Memo Crosstubes GRIND ONLY TRANSITION LINES SMOOTH LONGITUDE WAY. 150 0.00 \*150\* HandFXtube 0.00 Memo Hand Finishing Crosstubes

M

1- Pressure wash x-tube inside and out 2- Acid Etch X-tube inside and out Use red scotch brite.

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	DQA: Date:															
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								<del></del>	· · · · · · · · · · · · · · · · · · ·	····		QA Closed:		ate	:	
Work Ord	er:					DISPOSITION		1		AGAINST	D	EPARTMENT,	/PROCESS			
	_				<del>-</del>	Rework	7	1	Skid-tube	Crosstube	Г	Pro	d. Eng. Coo	r. 🗀	Engineering	
Part f	No					Scrap			Machining	Small Fab		Rec/Sto	re/Packagin	g	Quality	
						Use-as-is		Therr	moforming	Finishing	_		Supplie		] [	
NCR I	No					Work Order Update	_}		Large Fab	Composite	L	_	Othe	rL_	] [	
Root	T				Descri	ption of work order update	T	Initial	Ac	tion		Sign &				
Cause	$\perp$	Date	Step	Qty		or Non-conformance	c	hief Eng	Desc	ription		Date	Verificati	on	QC Inspect	or
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	c	rushed/C	Crimp at I	Bending		Spinning		Docume	ntation/Data			Orientation N	/lisread		Weld	
	Ir	spection	Strip in	Tube		Threading	Г	Finish			-	Out of Calibra	ation		Wrong Stock Pull	led
	o	ther				Wrong		Inspection	on Incomplete			Out of Seque	nce	<u> </u>		
	Ρ	ositioned	Wrong			Drill Holes	Inspection Unqualified			Outside Dime	nsions		Other			
Ripples on Inner Bend Misaligned						Misaligned	Instructions Incomplete/Unclear		Over/Under tolerance							
[		orque Wa	aves in E	ktrusior	١ [	Ovalized	Jigs/Fixtures/Tooling		Part Lost							
Turning Sequence Over/Undersized					Kit Incorrect		Part Moved									
f	Wave/Twist in Tube Too Many						Kit Missing			Raw Material						

Work Ord June-19-12 1:1		989			t Fair a la		8598	39*							Page 4
Item ID: Revision ID: Item Name:	D212-664-20 Crosstube Tur					Accept	•	*N900	<b>1</b> 040	100	)*	Setup S		*N!	S1* S2*
Start Date: Required Date Reference:	19/06/2012 : 03/07/2012	Start Qt Req'd Q	•		*1* *1*			Cust Item Customer						1 VI 4	17
Approvals:	Process Pla	n:		Date:		Tooling:			Date:		•		Start Stop	*NI *NI	R1* R2*
Sequence ID/ Work Center I 160 *160* QC	<i>M</i>	Operation Description QC5 Inspect		onversion Coal		Set U Run I 0.00	P/ Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rejec Qty		Reject Number	Insp. Stamp
Quality Control		Packaging				0.00	<b>Q</b> , -								
Packaging Packaging 180		OC21- Fina	Memo Identify and s Location:	Lo		0.00	MO	12/8/	20		·· · · · ·				
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Work Order ID: 85989

Parent Item: D212-664-201TRN

Parent Item Name: Crosstube Turning Detail

\*D212-664-201TRN\*

**Start Date:** 19/06/2012

**Required Date:** 03/07/2012

Page 1

Start Qty: 1.00

Required Qty: 1.00

**Comments:** 

IPP Rev:A 08-03-06 new issue DD verified by:ec

IPP Rev B 08.04.02 Removed polish EC verified DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6006-129		Manufactured	No			120	Each	27.0000	1	1			11211421
*D6006_12	) <b>0</b> *								**				

\*D6006-129\*

Crosstube Material

Location	Loc Oty	Loc Code	
LG	27		
23970	2		
26550	3		
34690	1		
69838	21	•	

- mml 12/08/11

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NCR:	Yes	/	No

NCR:	Yes /	No No				W	VORK ORDER NON-	·CC	NFOR	MANCE / UP	DATE	QA	Closed:	Da	te:	2/8/2012
Work Ord	er:	Ê	59	39			DISPOSITION				AGAINST	DEPAI	RTMENT	/PROCESS		
	No			64-	20 IT	ZN	Rework Scrap Use-as-is Work Order Update	\ \ \		Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite			d. Eng. Coor. re/Packaging Supplier Other	E	Ingineering Quality
Root			_		Desc		n of work order update	Τ	Initial	Act			ign &			
Cause	$\vdash$	Date	Step	Qty		or No	on-conformance	c	hief Eng	Descr	iption	4	Date	Verification	1	QC Inspector
Doc/Data Equip/Tooling Operator Material Offset/Setup Other	X <sub>n</sub>	નુષ્રાડ	Ivo	1	Cu	ffs,	ore under olerance. 2.990'-2.982" 2.993"-2.984"	ħ	DAS (14)15	Acceptable	-	12	D2 120 1/4/15	(26) 16 17/05/li		7AS 16 2-83
Process	4						•									16/00/16
Supplier Fraining Unauthorized																
							F	AU	LT CATE	GORY						N.S
Landin	<u>~</u>				_	<b>-</b>	Hardware		7	General	.,					•
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-			rimp at E	lending		Spini	Length	$\vdash$	Cut Too	snorτ ntation/Data	<u> </u>	Off-	Set entation N	41	_	nperature/Cure
	<b>—</b> i		Strip in	_	<u> </u>	⊣ '	ading	$\vdash$	Finish	ntation, Data	F		of Calibra	-	- Wel	ong Stock Pulled
j	Oti	•	•		-	Wro	•	$\vdash$	4	on Incomplete	ŀ		of Seque	L		ing Stock Funeu
				Drill Holes		i '	on Unqualified			side Dime	-	Oth	er			
Ripples on Inner Bend Misaligned					ligned		1	ons Incomplete/Ur	nclear	Over/Under tolerance						
	<del></del> /	•	ves in Ex	trusion		Ovali	ized	Jigs/Fixtures/Tooling			Part Lost					
Turning Sequence Over/Un					/Undersized	Kit Incorrect		Part Moved								
Wave/Twist in Tube				Too N	1any Tany		Kit Missing			Raw Material						

DART AEROSPACE LTD	Work Order:	85989
Description: Crosstube Assembly (205/212 High Aft)	Part Number:	D212-664-241
Inspection Dwg: D212-664-241 Rev: D		Page 1 of 2

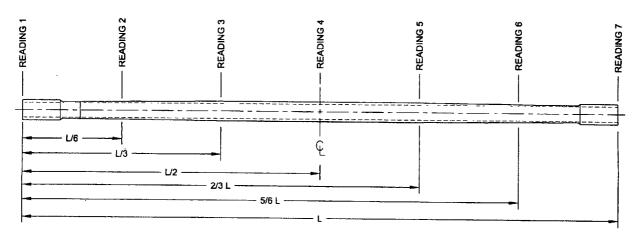
# FIRST ARTICLE INSPECTION CHECKLIST

In: Dra	spection Sheet wing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	0.200	+/-0.010	,200	()		vern	C-1WC-90
	R0.063	+/-0.010	.063			R6	-10- 02-19
	2.990	+0.005/-0.000	2.990			vern	cuc-og
	5.237	+/-0.030	5,237	/		7	
	2.600	+0.005/-0.000	2-604	/			
	2.686	+0.005/-0.000	2.690				
EA	2.770	+0.005/-0.000	2.775	/			
SIDE	2.854	+0.005/-0.000	2-859	/			
"	2.938	+0.005/-0.000	2-941	1			
	3.021	+0.005/-0.000	3.026	/			
	3.133	+0.005/-0.000	3.138				
	3.179	+0.005/-0.000	3.183			<b>V</b>	
	0.200	+/-0.010	.) ထ			virn	CNC-08
	R0.063	+/-0.010	.063	رسر		RG	
L	2.990	+0.005/-0.000	2.992	)		vern	CNC-08
	5.237	+/-0.030	5,237	V		1	
	2.600	+0.005/-0.000	2-605				
	2.686	+0.005/-0.000	2.691	/			
m	2.770	+0.005/-0.000	2.775				
	2.854	+0.005/-0.000	2.859				
SB	2.938	+0.005/-0.000	2.941	/			
	3.021	+0.005/-0.000	3.026				
	3.133	+0.005/-0.000	3.138				
	3.179	+0.005/-0.000	3.182	/		\ <u>\</u>	
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DART AEROSPACE LTD	Work Order:	85989
Description: Crosstube Assembly (205/212 High Aft)	Part Number:	D212-664-241
Inspection Dwg: D212-664-241 Rev: D		Page 2 of 2

# WALL THICKNESS MEASUREMENT



	WALL THICKNESS MEASUREMENT (IN)				Deviation	
Location	w1	w2	w3	w4	Δw (max-min)	TOLERANCE
READING 1 L= 0"	,393	.381	.381	393	.012	
READING 2 L= (S	,270	,270	,252	. 25 4	-018	·
READING 3	,392	.394	,376	. 373	.024	
READING 4	,519	.516	.519	.518	.063	0.062"
READING 5	.467	-361	.301	1382	-040	
READING 6	286	.257	,240	-270	-046	
READING 7	.401	·3(do	.377	.402	-036	

### **Calibration Result**

Actual Block Thickness: 256-750

Sitescan 250 Measured Thickness: 250-350

-	Preliminary Approval:		DAS	Audited by:		mont	ured by:	Measi	
	Date:	7/05/16	16	Date: 12-8-16/	3	12/08/1	Date:		
Approve	Revised by					Change	Date	Rev	
3.pp.000	KJ/JLM		1)	(P/O D412-664-201)	(	New Issue	05.04.27	Α	
-	KJ/JLM			37 was +/-0.001	for 5.237 v	Tolerance	06.03.09	В	
	KJ/JLM					Dwg Rev. ι	07.05.08	С	
-	KJ /^			2 was 124.36	124.362 v	Dimension	10.08.03	D	
<i>₩</i>	KJ 🐼		<del></del>			Wall thickn	12.06.04	F	



Item	Qty -241	Qty -241B	Part Number	Description
1	Х		D212-664-241	CROSSTUBE ASSEMBLY (205/212 HIGH AFT)
2		Х	D212-664-241B	CROSSTUBE ASSEMBLY (214 HIGH AFT)
3	1	1	D6006-129	CROSSTUBE
4	2	2	D2940-1	SUPPORT
5	4	4	D3595-063-530	RUBBER CUSHION
6	4	4	MS21920-28	CLAMP (OR MS21920-30)
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

#### **GENERAL NOTES:**

1) MATERIAL: MANUFACTURED FROM D6006-129 FINISHED LENGTH = 124.362±0 020

2) FINISH CHEMICAL CONVERSION COAT PER DART QSI 005 4 1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4 2

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

UNITS: INCHES UNLESS OTHERWISE NOTED.

BREAK SHARP EDGES: 0.005 TO 0.010 MAX

IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.

WEIGHT: D212-664-241 = 44.2 lbs (PER IIN-D212-664) D212-664-241B = 44.2 lbs (PER IIN-D212-664)

PART IS SYMMETRIC ABOUT CENTERLINE.

RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.

10) BEND PROGRESSIVELY WITH A MINIMUM OF 5 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O D.

11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.

12) INSTALL D2940-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2940-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.

13) INSTALL MS21920-28 CLAMPS (OR -30) WITH D3595-063-530 RUBBER CUSHIONS TO SECURE THE D2940-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE. SUPPORT.

14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE

15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY **RETURN TO ENGINEERING** UNCONTROLLED COPA SUBJECT TO AMENDMENT

WITHOUT NOTICE WORK ORDER NO 85989 MLJ

12/06/19

DEO ATTACHED

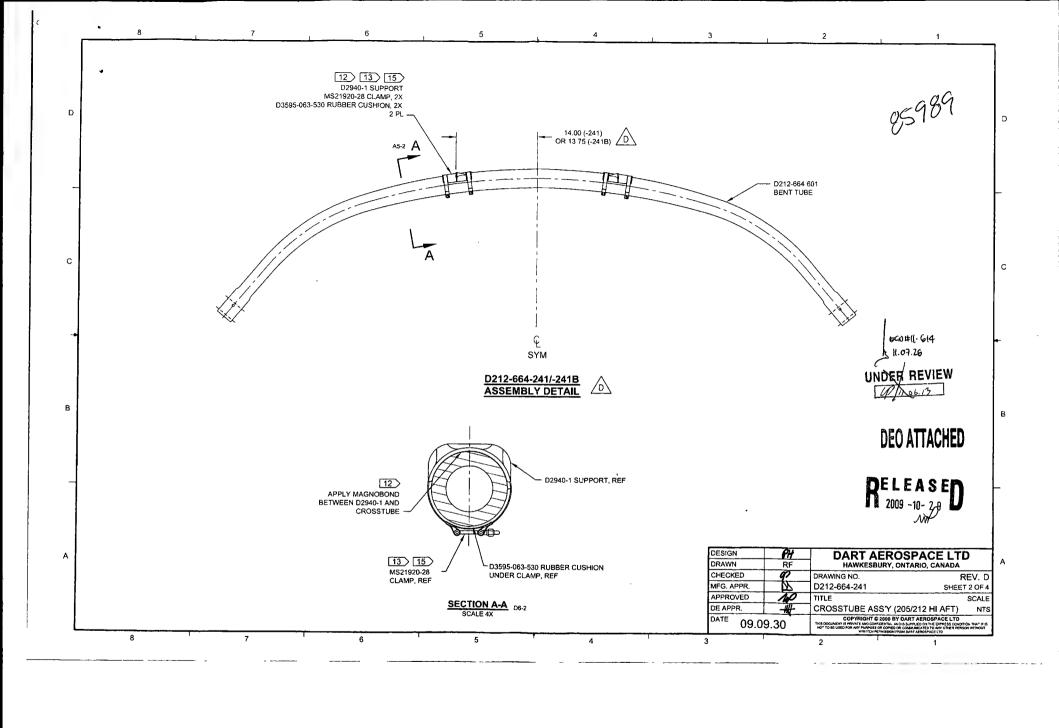
COPYRIGHT © 2000 BY DART AEROSPACE LTD

D	REORG TO CUF REMOV C6-3 &	MAT/REVISE ( ANIZED VIEW RENT STAND ED REF & ADI A8-3); RELOC MOVED TURNI	RF	09.09.30	
С	REMOVE -1009 ABRASION STRIP, ADD MAGNOBOND 6398, CUSHION, REVERSE CLAMPS				07.03.08
В	ADD HOLES FOR COMPATABILITY WITH BHT/AA SKIDTUBES			PH	05.02.04
Α	NEW IS	SSUE		PH	00.12.12
REV.		DESCRIPTION			DATE
DESIGN		PH	DART AEROSP	ACE	LTD
DRAWN		RF	HAWKESBURY, ONTARI		
CHECK	ED	P	DRAWING NO.		REV. D
MFG. AF	PR.	77	D212-664-241 sH		SHEET 1 OF 4
APPRO	√ED	10	TITLE		SCALE
DE APP	R.	-#-	CROSSTUBE ASSY (205/21	2 HI A	FT) NTS

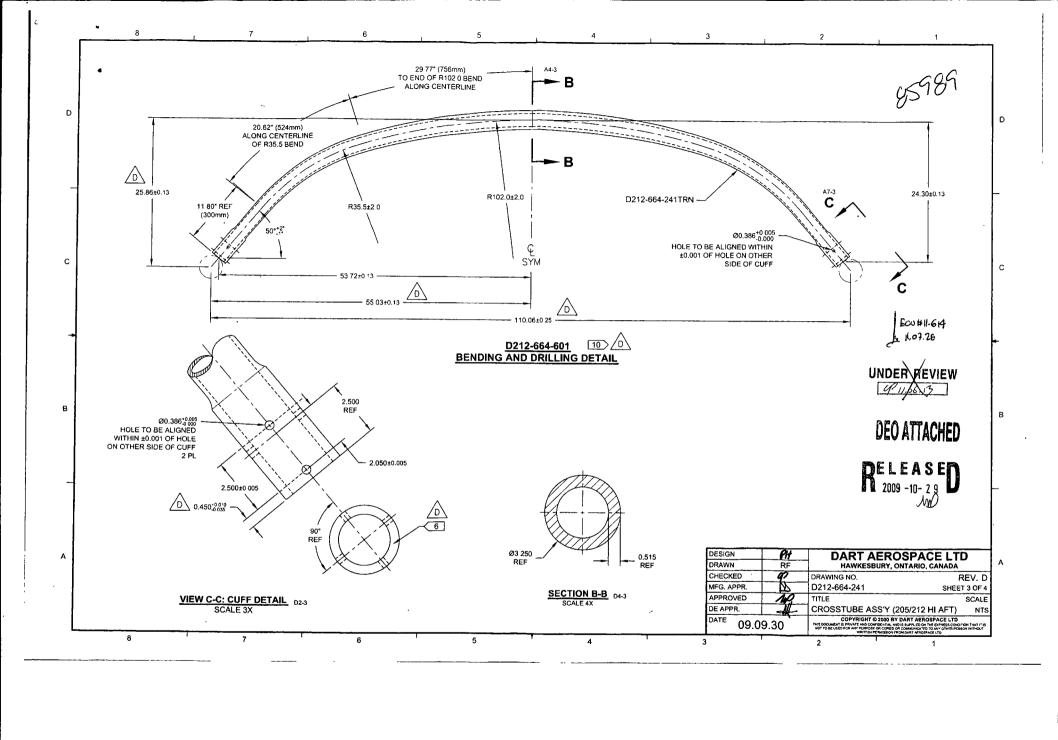
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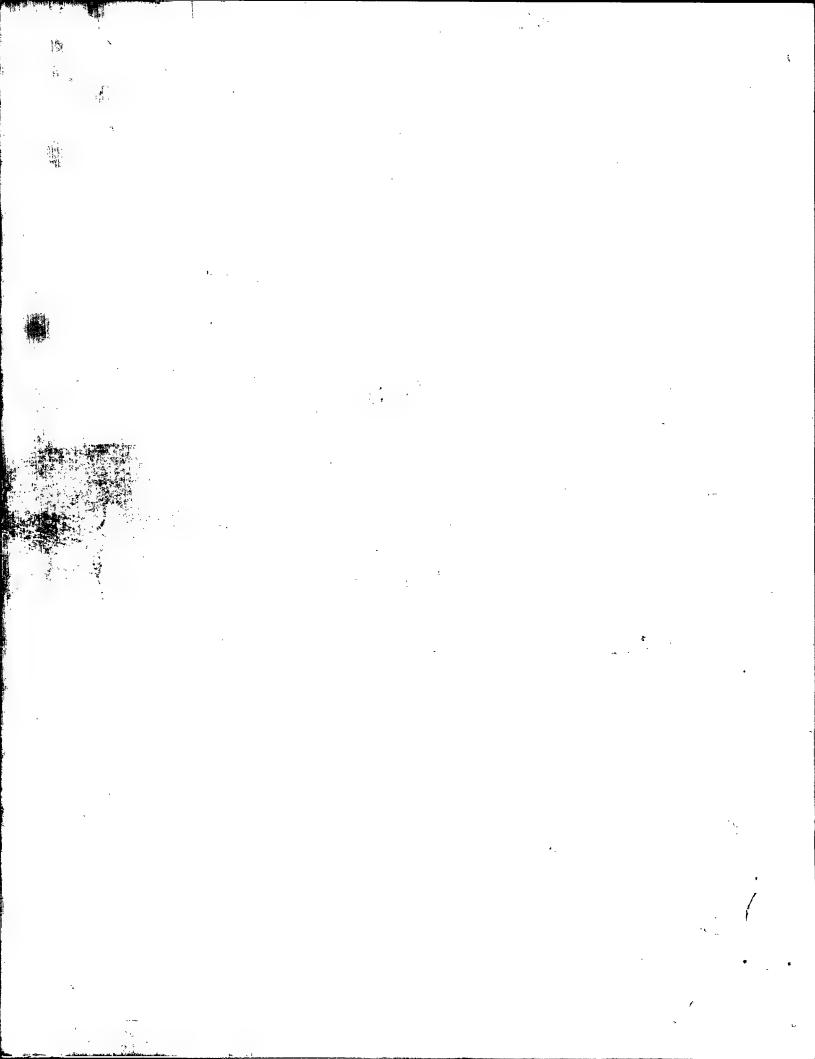
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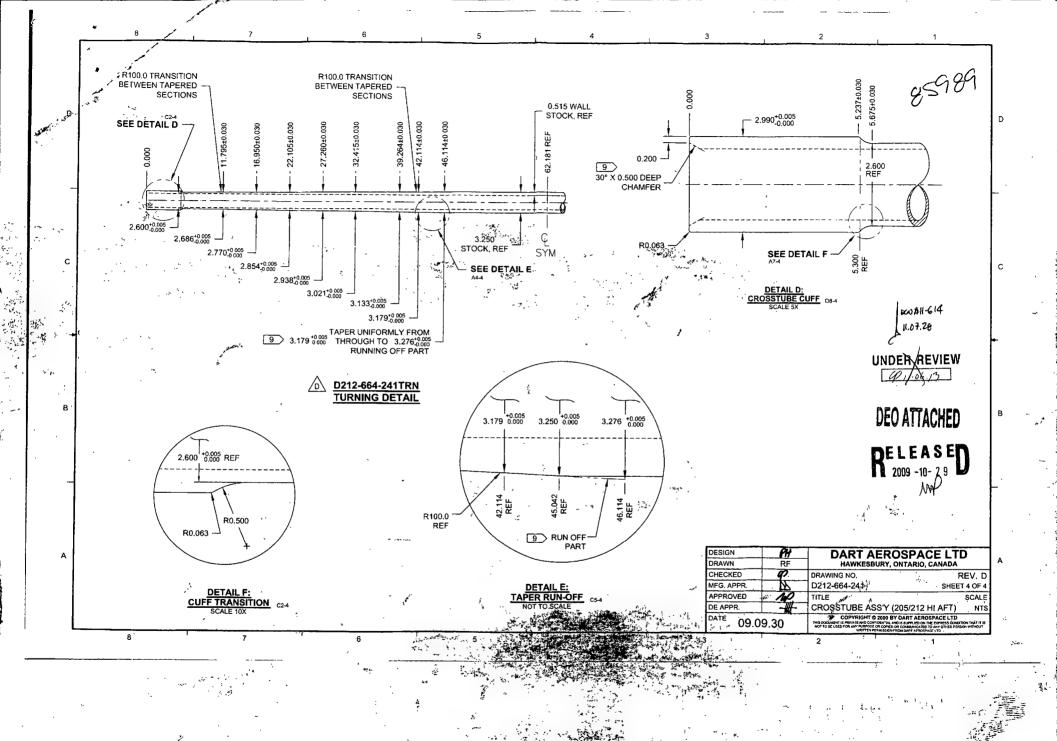
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DRAWING NO. TITLE DART AEROSPACE LTD REV. D D.E.O. NO. SHEET NO. D212-664-241 CROSSTUBE ASSY (205/212 HI AFT) **ENGINEERING ORDER** D212-664-241-D-1 SHEET 1 OF.2 NTS DRAWN CHECKED MFG. APPR. APPROVED DE APPR. 11.04.07 DATE DATE 11.04.1 11/04/12 DATE DATE 11.04.12 DATE 11,04.12

PURPOSE:

ADD AN INSPECTION WINDOW TO UNDERSIDE OF CROSSTUBE.

CHANGE:

NOTES 2 OF SHEET 1 IS AMENDED AS FOLLOWS:

IS:

FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND

PAINT OUTSIDE PER DART QSI 005 4.2 REMOVE MASKING AND APPLY CLEAR COAT

WAS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

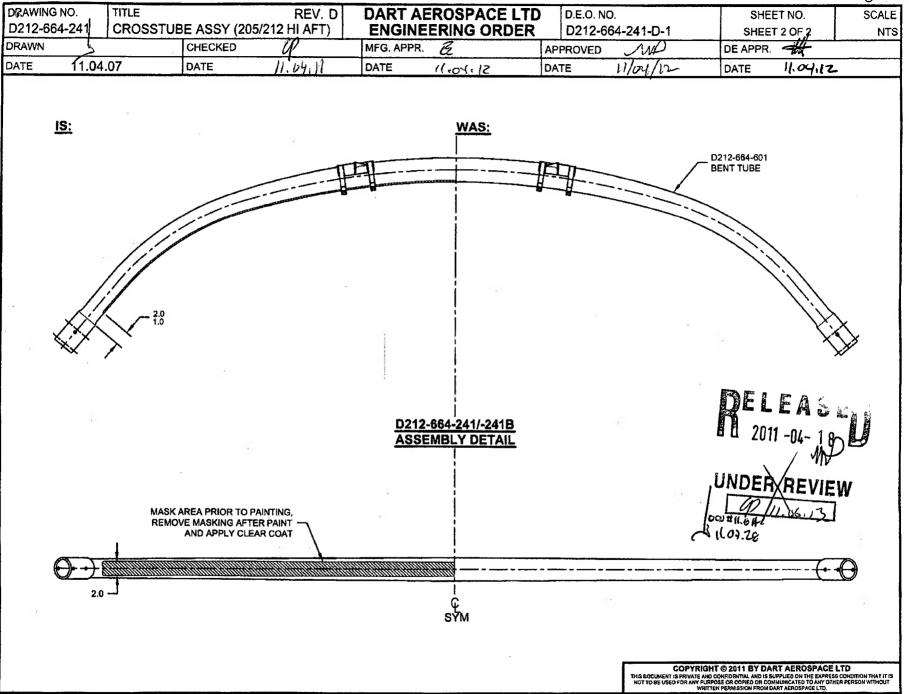
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2

ECVHI-614

11.07.26

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DRAWING NO.	TITLE REV. D	DART AEROSPACE LT	D.E.O. NO.	SHEET NO. SCALE
D212-664-241	CROSSTUBE ASS'Y (205/212 HI AFT)	ENGINEERING ORDER	D212-664-241-D-2	SHEET 1 OF 1 NTS
DRAWN 9	CHECKED ASS	MFG. APPR.	APPROVED (M)	DE APPR.
DATE 11.07	15 DATE 11.07.20	DATE 17.07.21	DATE 11/27/21	DATE 11-07.21

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL.

### CHANGE:

IS:

item	Qty -241	Qty -241B	Part Number	Description
7	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

### WAS:

7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
				ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
				TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

IS:

- 12) TO INSTALL D2940-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04° TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

#### WAS:

- 12) INSTALL D2940-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2940-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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